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- Compositions and methods for using a solid support to purify RNA
- AB The invention concerns a method for purifying substantially pure and undegraded RNA from biol. material comprising RNA, comprising the steps of: (a) mixing the biol. material with an RNA Lysing/ Binding Solution buffered at a pH of greater than about 7, the RNA Lysing/Binding Solution comprising an RNA -complexing salt; (b) contacting the mixture to a solid support such that nucleic acids comprising substantially undegraded RNA in the mixture preferentially bind to the solid support; (c) washing the solid support with a series of RNA wash solns. to remove biol. materials other than bound nucleic acids comprising substantially undegraded RNA, wherein the series of wash solns. comprises a first wash comprising alc. and an RNA-complexing salt at a concentration of at least 1 M and a second wash comprising an alc., buffer and

optional chelator; and (d) preferentially eluting the bound substantially undegraded RNA from the solid support with an RNA Elution Solution in order to obtain substantially pure and undegraded RNA. Reagents, methods and kits for the purification of RNA from biol. materials are provided. 2004:80382 HCAPLUS

ΔN

DM 140:107795

- Compositions and methods for using a solid support to purify RNA
- Bair, Robert Jackson; Heath, Ellen M.; Meehan, Heather; Paulsen, Kim Elavne: Wages, John M.

PA USA

an

- SO U.S. Pat. Appl. Publ., 19 pp., Cont.-in-part of U.S. Ser. No. 974,798. CODEN: USXXCO
- Patent
- LA. English

FAN.CNT 3

PATENT NO. KIND DATE APPLICATION NO. DATE

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OSC. G 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS) RE.CNT 56 THERE ARE 56 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

- L9 ANSWER 2 OF 6 HCAPLUS COPYRIGHT 2010 ACS on STN
- Methods and kits for the purification of nucleic acids from

bacterial cells using a single reagent containing polyethylene glycol and binding to paramagnetic beads

The invention includes reagents and methods for the isolation of nucleic acids. The reagents described herein contain a nucleic acid precipitating

agent and a solid phase carrier. The reagents can optionally be formulated to cause the lysis of a cell. These reagents can be used to isolate a target nucleic acid mol. from a cell or a solution containing a mixture of different size nucleic acid mols. In a preferred embodiment plasmid DNA from bacterial cells are purified by precipitation with 1-4% polyethylene glycol (mol. weight of 8000) and 0.5M salt concentration

The DNA

is further purified by reversible binding to paramagnetic beads that are coated with amine or encapsulated carboxyl groups. The first reagent allows purification of DNA greater than 10 kb, while a second round of purification allows purification of DNA greater than 2.4 kb from a mixture of nucleic

acids 7% polyethylene glycol. Magnetic fields of about 1000 G are applied to the wells of a microtiter plate using a magnetic plate holder containing an N35 magnet for removal of paramagnetic beads following DNA purification The disclosed reagents and methods provides a simple, robust and readily automatable means of nucleic acid isolation and purification which produces high quality nucleic acid mole. suitable for: capillary electrophoresis, nucleotide sequencing, reverse transcription cloning the transfection, transduction or microinjection of mammalian cells, gene therapy protocols, the in vitro synthesis of RNA probes, cDNA library construction and PCR amblification.

AN 2002:539860 HCAPLUS

DN 137:89428

TI Methods and kits for the purification of nucleic acids from bacterial cells using a single reagent containing polyethylene glycol and binding to paramagnetic beads

IN McKernan, Kevin J.

PA Whitehead Institute for Biomedical Research, USA

SO PCT Int. Appl., 45 pp.

CODEN: PIXXD2 DT Patent

- LA English
- FAN.CNT 1

PAN.	PATENT NO.							DATE			APPL						ATE		
PI	WO		0557	27		A2		2002			WO 2	002-1	JS35	3		2	0020	109	<
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			AT, IE,	BE, SI,	CH, LT,	DE, LV,	DK, FI,	ES, RO,	FR, MK,	GB, CY,	GR, AL,	IT, TR	LI,	LU,	NL,	SE,	MC,	PT,	
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ASSIGNMENT HISTORY FOR US FAIRNI AVAILABLE IN LSUS BIOPART FORMAT
OSC.G 6 THERE ARE 6 CAPLUS RECORDS THAT CITE THIS RECORD (6 CITII
RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 3 OF 6 HCAPLUS COPYRIGHT 2010 ACS on STN

- TI Methods and kits for isolating nucleic acids from leukocytes by binding to antibodies on a solid support
- AB The present invention relates to a method of isolating nucleic acid from a blood sample. The method involves selectively isolating leukocytes from said sample by binding said leukocytes to a solid support containing a binding partner specific for the leukocyte, for example an antibody. The antibody can bind an antigen selected from one of more of the following: HLA-I, CD1a, CD1A, CD45, CD46, CD50, CD82, CD162, CD5 and CD15 and a specific example shows a combination of CD45 and CD15. The said leukocytes are lysed in detergents to release nucleic acids which are subsequently bound to a second

solid support which is neg. charged. Kits for isolating

nucleic acid from samples form further embodiments of the invention. AN 2001:904506 HCAPLUS

AN 2001:904506

DN 136:15912

- TI Methods and kits for isolating nucleic acids from leukocytes by binding to antibodies on a solid support
- IN Bergholtz, Stine; Korsnes, Lars; Andreassen, Jack PA Dynal Biotech Asa, Norway; Jones, Elizabeth Louise
- SO PCT Int. Appl., 51 pp.
 - CODEN: PIXXD2
- DT Patent
- LA English

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- OSC.G 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)
 RE.CNI 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT
- L9 ANSWER 4 OF 6 HCAPLUS COPYRIGHT 2010 ACS on STN
- TI Solid phase technique for selectively isolating
- AB A method of isolating target nucleic acid mols. from a solution comprising a mixture of different size nucleic acid mols., in the presence or absence of other biomols., by selectively facilitating the adsorption of a particular species of nucleic acid mol. to the functional group-coated surface of magnetically responsive paramagnetic microparticles is disclosed. Separation is accomplished by manipulating the ionic strength and polyalkylene glycol concentration of the solution to selectively precipitate, and reversibly adsorb. the target

species of nucleic acid mol., characterized by a particular mol. size, to paramagnetic microparticles, the surfaces of which act as a bioaffinity adsorbent for the nucleic acids. The target nucleic acid is isolated from the starting mixture based on mol. size and through the removal of magnetic beads to which the target nucleic acid mols. have been adsorbed. The disclosed method provides a simple, robust and readily automatable means of nucleic acid isolation and purification which produces high

quality nucleic acid mols. suitable for: capillary electrophoresis, nucleotide sequencing, reverse transcription cloning the transfection, transduction or microinjection of mammalian cells, gene therapy protocols, the in vitro synthesis of RNA probes, cDNA library construction and PCR amplification.

AN 1999:736906 HCAPLUS

DN 131:334336

Solid phase technique for selectively isolating nucleic acids

IN McKernan, Kevin; McEwan, Paul; Morrison, William PA Whitehead Institute for Biomedical Research, USA

SO PCT Int. Appl., 46 pp.

CODEN: PIXXD2

DT Patent

LA English FAN.CNT 1

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PI	WO	9958		TD		A1	_	1999	1118	W	0 1	999-	US10	572		19	990	513	<
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	US	1999	-311	317		A1		1999	0513	<									
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ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

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OSC.G 11 THERE ARE 11 CAPLUS RECORDS THAT CITE THIS RECORD (12 CITINGS) RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 5 OF 6 HCAPLUS COPYRIGHT 2010 ACS on STN

Isolation of nucleic acid from biological sample, method TT comprising nucleic acid binding to solid

support then separation from support, and kit comprising detergents and other components

The present invention provides a method of isolating nucleic acid from a sample, said method comprising contacting said sample with a detergent and a solid support, whereby soluble nucleic acid in said sample is bound to the support, and separating said support with bound nucleic acid from the sample. Where the method of the invention is used to isolate DNA, it may conveniently be coupled with a further step to isolate RNA from the same sample.

AN 1996:458048 HCAPLUS

DN 125:107039

OREF 125:19863a,19866a

Isolation of nucleic acid from biological sample, method comprising nucleic acid binding to solid support then separation from support, and kit comprising detergents and other components

Deggerdal, Arne Helge; Larsen, Frank

PA Dynal A/s, Norway; Dzieglewska, Hanna Eva

PCT Int. Appl., 53 pp. CODEN: PIXXD2

Patent

LA English

FAN.CNT 1

PATENT NO. KIND DATE APPLICATION NO. DATE

PI	WO	9618	731	A2 1996062						1	WO 1	995-0	GB28	93		1	9951:	212 -	<
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ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT OSC.G 18 THERE ARE 18 CAPLUS RECORDS THAT CITE THIS RECORD (19 CITINGS) RE.CNT 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 6 OF 6 HCAPLUS COPYRIGHT 2010 ACS on STN

Purification of nucleic acids from solution without

precipitation by binding to a solid phase

A method of separating polynucleotides, such as DNA, RNA and PNA, from solution by reversibly and non-specifically binding them to a solid surface, such as a magnetic microparticle, with a functional group-coated surface is disclosed. The salt and polyalkylene glycol concentration of the solution is adjusted to levels which result in polynucleotide

binding to the magnetic microparticles. The magnetic

microparticles with bound polynucleotides are separated from the solution and t.he

polynucleotides are eluted from the magnetic microparticles. The method is generally applicable to large and small nucleic acids and works with crude prepns. such as cleared lysates. Material can be selectively eluted from the particles by controlling the ionic strength of the elution buffer.

1996:350414 HCAPLUS AN

DN 125:5056

OREF 125:1147a,1150a

Purification of nucleic acids from solution without precipitation by binding to a solid phase

TN Hawkins, Trevor

Whitehead Institute for Biomedical Research, USA PΑ

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SO PCT Int. Appl., 38 pp.
    CODEN: PIXXD2
   Patent
LA English
FAN.CNT 1
    PATENT NO.
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    WO 9609379
                       A1 19960328 WO 1995-US11839 19950919 <--
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        RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE
    US 5705628 A 19980106 US 1994-309267 19940920 <--
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US 5898071 A 19990427 US 1998-2412
PRAI US 1994-309267 A 19940920 <--
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ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
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        475087 S RNA OR RIBONUCLEIC
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       2207845 S BINDING OR EXTRACTION OR PURIFICATION OR SEPARATION OR ISOLAT
L4
           289 S L1 AND L2 AND L3
L5
           124 S L4 AND (PY<2002 OR AY<2002 OR PRY<2002)
    FILE 'STNGUIDE' ENTERED AT 11:20:21 ON 12 APR 2010
    FILE 'HCAPLUS' ENTERED AT 11:21:41 ON 12 APR 2010
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            89 S L5 NOT L6
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FILE 'HCAPLUS' ENTERED AT 11:20:14 ON 12 APR 2010 USE IS SUBJECT TO THE TERMS OF YOUR SIN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2010 AMERICAN CHEMICAL SOCIETY (ACS)

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FILE COVERS 1907 - 12 Apr 2010 VOL 152 ISS 16 FILE LAST UPDATED: 11 Apr 2010 (20100411/ED) REVISED CLASS FIELDS (/NCL) LAST RELOADED: Feb 2010 USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Feb 2010

HCAplus now includes complete International Patent Classification (IPC) reclassification data for the first quarter of 2010.

CAS Information Use Policies apply and are available at:

http://www.cas.org/legal/infopolicy.html

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s RNA or ribonucleic

393838 RNA

195494 RIBONUCLEIC

L1 475087 RNA OR RIBONUCLEIC

=> s lithium

L2 378525 LITHIUM

=> s binding or extraction or purification or separation or isolation

1144661 BINDING

207869 EXTRACTION

388983 PURIFICATION

252971 SEPARATION 300779 ISOLATION

L3 2207845 BINDING OR EXTRACTION OR PURIFICATION OR SEPARATION OR ISOLATION

=> s 11 and 12 and 13

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=> s 14 and (PY<2002 or AY<2002 or PRY<2002)

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FILE CONTAINS CURRENT INFORMATION.

LAST RELOADED: Apr 9, 2010 (20100409/UP).

=> file hcaplus

COST IN U.S. DOLLARS

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TOTAL SESSION 3.71

FULL ESTIMATED COST

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FILE COVERS 1907 - 12 Apr 2010 VOL 152 ISS 16
FILE LAST UPDATED: 11 Apr 2010 (20100411/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Feb 2010
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Feb 2010

 ${
m HCAplus}$ now includes complete International Patent Classification (IPC) reclassification data for the first quarter of 2010.

CAS Information Use Policies apply and are available at:

http://www.cas.org/legal/infopolicy.html

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s quanidinium or thiocyanate or isothiocyanate

7524 GUANIDINIUM 42962 THIOCYANATE 29807 ISOTHIOCYANATE

1.6

77588 GUANIDINIUM OR THIOCYANATE OR ISOTHIOCYANATE

=> s 15 not 16

1.7 89 1.5 NOT 1.6

=> file stnguide

COST IN U.S. DOLLARS SINCE FILE TOTAL ENTRY SESSION

FULL ESTIMATED COST 2.91 6.62

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=> file hcaplus

 COST IN U.S. DOLLARS
 SINCE FILE
 TOTAL

 FULL ESTIMATED COST
 0.14
 6.76

FILE 'HCAPLUS' ENTERED AT 11:23:10 ON 12 APR 2010
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FILE COVERS 1907 - 12 Apr 2010 VOL 152 ISS 16
FILE LAST UPDATED; 11 Apr 2010 (20100411/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Feb 2010
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Feb 2010

HCAplus now includes complete International Patent Classification (IPC) reclassification data for the first quarter of 2010.

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This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s (solid support) or (solid phase)

1258254 SOLID 603476 SUPPORT 10289 SOLID SUPPORT (SOLID(W)SUPPORT) 1258254 SOLID 2087139 PHASE 125173 SOLID PHASE (SOLID(W)PHASE)

L8 132436 (SOLID SUPPORT) OR (SOLID PHASE)

=> s 17 and 18

L9 6 L7 AND L8

=> file stnguide

COST IN U.S. DOLLARS SINCE FILE TOTAL
ENTRY SESSION
FULL ESTIMATED COST 2.91 9.67

FULL ESTIMATED COST 2.91

FILE 'STMGUIDE' ENTERED AT 11:23:13 ON 12 APR 2010 USE IS SUBJECT TO THE TERMS OF YOUR CUSTOMER AGREEMENT COPYRIGHT (C) 2010 AMERICAN CHEMICAL SOCIETY (ACS)

FILE CONTAINS CURRENT INFORMATION. LAST RELOADED: Apr 9, 2010 (20100409/UP).

=> d 19 1-6 ti abs bib YOU HAVE REQUESTED DATA FROM FILE 'HCAPLUS' - CONTINUE? (Y)/N:y

- L9 ANSWER 1 OF 6 HCAPLUS COPYRIGHT 2010 ACS on STN
- TI Compositions and methods for using a solid support to purify RNA
- AB The invention concerns a method for purifying substantially pure and undegraded RNA from biol. material comprising RNA, comprising the steps of: (a) mixing the biol. material with an RNA Lysing/ Binding Solution buffered at a pH of greater than about 7, the RNA Lysing/Binding Solution comprising an RNA -complexing salt; (b) contacting the mixture to a solid support such that nucleic acids comprising substantially undegraded RNA in the mixture preferentially bind to the solid support; (c) washing the solid support with a series of RNA wash solns. to remove biol. materials other than bound nucleic acids comprising substantially undegraded RNA, wherein the series of wash solns. comprises a

first wash comprising alc. and an RNA-complexing salt at a concentration of at least 1 M and a second wash comprising an alc., buffer and

optional chelator; and (d) preferentially eluting the bound substantially undegraded RNA from the solid support with an RNA Elution Solution in order to obtain substantially pure and undegraded RNA. Reagents, methods and kits for the purification of RNA from biol. materials are provided.

- AN 2004:80382 HCAPLUS <<LOGINID::20100412>>
- DN 140:107795
- TI Compositions and methods for using a solid support to purify RNA
- IN Bair, Robert Jackson; Heath, Ellen M.; Meehan, Heather; Paulsen, Kim Elavne; Wages, John M.
- PA USA

an

- SO U.S. Pat. Appl. Publ., 19 pp., Cont.-in-part of U.S. Ser. No. 974,798. CODEN: USXXCO
- DT Patent
- LA English

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ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OSC.G 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)
RE.CNT 56 THERE ARE 56 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

- L9 ANSWER 2 OF 6 HCAPLUS COPYRIGHT 2010 ACS on STN
- TI Methods and kits for the purification of nucleic acids from bacterial cells using a single reagent containing polyethylene glycol and binding to paramagnetic beads
- AB The invention includes reagents and methods for the isolation of nucleic acids. The reagents described herein contain a nucleic acid precipitating
- agent and a solid phase carrier. The reagents can optionally be formulated to cause the lysis of a cell. These reagents can be used to isolate a target nucleic acid mol. from a cell or a solution containing a mixture of different size nucleic acid mols. In a preferred embodiment plasmid DNA from bacterial cells are purified by precipitation with 1-4% polyethylene glycol (mol. weight of 8000) and 0.5M salt concentration The DNA

is further purified by reversible binding to paramagnetic beads

that are coated with amine or encapsulated carboxyl groups. The first reagent allows purification of DNA greater than 10 kb, while a second round of purification allows purification of DNA greater than 2.4 kb from a mixture of

acids 7% polyethylene glycol. Magnetic fields of about 1000 G are applied to the wells of a microtiter plate using a magnetic plate holder containing an N35 magnet for removal of paramagnetic beads following DNA purification The disclosed reagents and methods provides a simple, robust and readily automatable means of nucleic acid isolation and purification which produces high quality nucleic acid mols. suitable for: capillary electrophoresis, nucleotide sequencing, reverse transcription cloning the transfection, transduction or microinjection of mammalian cells, gene therapy protocols, the in vitro synthesis of RNA probes, cDNA library construction and PCR amplification.

- AN 2002:539860 HCAPLUS <<LOGINID::20100412>>
- DN 137:89428
- тт Methods and kits for the purification of nucleic acids from bacterial cells using a single reagent containing polyethylene glycol and binding to paramagnetic beads
- IN McKernan, Kevin J.
- Whitehead Institute for Biomedical Research, USA PA
- SO PCT Int. Appl., 45 pp. CODEN: PIXXD2
- DT Patent
- LA English
- EAN ONE

FAN.	FAN.CNT 1 PATENT NO						D	DATE				ICAT				Di	ATE	
PI		2002														2	0020	109 <
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OSC.G 6 THERE ARE 6 CAPLUS RECORDS THAT CITE THIS RECORD (6 CITINGS) RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

- ANSWER 3 OF 6 HCAPLUS COPYRIGHT 2010 ACS on STN
- Methods and kits for isolating nucleic acids from leukocytes by binding to antibodies on a solid support
- The present invention relates to a method of isolating nucleic acid from a blood sample. The method involves selectively isolating leukocytes from said sample by binding said leukocytes to a solid support containing a binding partner specific for the

leukocyte, for example an antibody. The antibody can bind an antigen selected from one of more of the following: HLA-I, CD11a, CD18, CD45, CD46, CD50, CD82, CD162, CD5 and CD15 and a specific example shows a combination of CD45 and CD15. The said leukocytes are lysed in detergents to release nucleic acids which are subsequently bound to a second solid support which is neg. charged. Kits for isolating nucleic acid from samples form further embodiments of the invention. 2001:904506 HCAPLUS <<LOGINID::20100412>>

APPLICATION NO.

DATE

20010605 <--

20010605 <--

20010605 <--

20030430 <--

20080404 <--

DN 136:15912

AN

- TI Methods and kits for isolating nucleic acids from leukocytes by binding to antibodies on a solid support
- IN Bergholtz, Stine; Korsnes, Lars; Andreassen, Jack

KIND DATE

- PA Dynal Biotech Asa, Norway; Jones, Elizabeth Louise SO PCT Int. Appl., 51 pp.
- CODEN: PIXXD2

PATENT NO.

AU 2001260507

US 20030180754 US 20080293035

AT 335815

ES 2269399

PRAI GB 2000-13658

DT Patent English T.A FAN.CNT 1

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PI	WO	2001	0945	72		A1		2001	1213		WO 2	001-	GB24	72		2	0010	605 <
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	CA	2410888				C		2008	0916									
	EP	1290155				A1		2003	0312		EP 2	001-	9342	05		2	0010	605 <
	EP	1290				B1		2006	0809									
		R: AT, BE, C		CH,	DE,	DK,	ES,	FR,	GB,	GR,	IT,	LI,	LU,	NL,	SE,	MC,	PT,	

B2 20060831 AU 2001-260507

T3 20070401 ES 2001-934205

A1 20030925 US 2003-297301

A1 20081127 US 2008-98411

20060915 AT 2001-934205

20000605 <--WO 2001-GB2472 TeT 20010605 <--US 2003-297301 B1 20030430 ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT OSC.G 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS) RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

IE, SI, LT, LV, FI, RO, MK, CY, AL, TR

L9 ANSWER 4 OF 6 HCAPLUS COPYRIGHT 2010 ACS on STN

A

- ΤI Solid phase technique for selectively isolating nucleic acids
- A method of isolating target nucleic acid mols, from a solution comprising a mixture of different size nucleic acid mols., in the presence or absence of other biomols., by selectively facilitating the adsorption of a particular species of nucleic acid mol. to the functional group-coated surface of magnetically responsive paramagnetic microparticles is disclosed. Separation is accomplished by manipulating the ionic strength and polyalkylene glycol concentration of the solution to selectively precipitate, and reversibly adsorb, the target

species of nucleic acid mol., characterized by a particular mol. size, to

paramagnetic microparticles, the surfaces of which act as a bioaffinity adsorbent for the nucleic acids. The target nucleic acid is isolated from the starting mixture based on mol. size and through the removal of magnetic beads to which the target nucleic acid mols. have been adsorbed. The disclosed method provides a simple, robust and readily automatable means of nucleic acid isolation and purification which produces high quality nucleic acid mols. suitable for: capillary electrophoresis, nucleotide sequencing, reverse transcription cloning the transfection, transduction or microinjection of mammalian cells, gene therapy protocols, the in vitro synthesis of RNA probes, cDNA library construction and PCR amblification.

AN 1999:736906 HCAPLUS <<LOGINID::20100412>>

DN 131:334336

TI Solid phase technique for selectively isolating

nucleic acids

IN McKernan, Kevin; McEwan, Paul; Morrison, William

PA Whitehead Institute for Biomedical Research, USA SO PCT Int. Appl., 46 pp.

CODEN: PIXXD2

DT Patent

LA English FAN.CNT 1

PATENT NO.	KIND DATE	APPLICATION NO.	DATE
PI WO 9958664	A1 19991118	WO 1999-US10572	19990513 <
W: CA, JP RW: AT, BE, CH,	CY, DE, DK, ES, I	FI, FR, GB, GR, IE, IT,	LU, MC, NL,
PT, SE			
US 6534262	B1 20030318	US 1999-311317	19990513 <
US 20030235839	A1 20031225	US 2003-346714	20030116 <
US 20040214175	A9 20041028		
US 20060003357	A1 20060105	US 2005-129218	20050513 <
PRAI US 1998-85480P	P 19980514	<	
US 1999-121779P	P 19990226	<	
US 1999-311317	A1 19990513	<	
US 2003-346714	A3 20030116		
ASSIGNMENT HISTORY FOR U	S PATENT AVAILABLE	E IN LSUS DISPLAY FORMAT	

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OSC.G 11 THERE ARE 11 CAPLUS RECORDS THAT CITE THIS RECORD (12 CITINGS)
RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 5 OF 6 HCAPLUS COPYRIGHT 2010 ACS on STN

TI Isolation of nucleic acid from biological sample, method comprising nucleic acid binding to solid support then separation from support, and kit comprising

support then separation from support, and kit comprising detergents and other components

AB The present invention provides a method of isolating nucleic acid from a

sample, said method comprising contacting said sample with a detergent and a solid support, whereby soluble nucleic acid in said sample is bound to the support, and separating said support with bound nucleic acid from the sample. Where the method of the invention is used to isolate DNA, it may conveniently be coupled with a further step to isolate RNA from the same sample.

N 1996:458048 HCAPLUS <<LOGINID::20100412>>

DN 125:107039

OREF 125:19863a,19866a

TI Isolation of nucleic acid from biological sample, method comprising nucleic acid binding to solid support then separation from support, and kit comprising detergents and other components

IN Deggerdal, Arne Helge; Larsen, Frank

PA Dynal A/s, Norway; Dzieglewska, Hanna Eva

SO PCT Int. Appl., 53 pp.

CODEN: PIXXD2

DT Patent LA English

FAN.CNT 1 PATENT NO

FAN.	CNT 1 PATENT NO			KIN)	DATE			APPL	ICAT:	ION I	NO.		D	ATE		
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PI	WO 961873	31		A2		1996	0620		WO 1	995-0	GB28	93		1	9951	212 <	
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	US 200803	300396		A1		2008	1204		JS 2	008-	5433:	2		2	0080	324 <	
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	US 200901	149646		A1		2009	0611		JS 2	008-	1309.	59		21	0080	530 <	
PRAI	GB 1994-2	25138		A		1994	1212	<-	-								
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OSC.G 18 THERE ARE 18 CAPLUS RECORDS THAT CITE THIS RECORD (19 CITINGS) RE.CNT 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

- 1.9 ANSWER 6 OF 6 HCAPLUS COPYRIGHT 2010 ACS on STN
- TT Purification of nucleic acids from solution without

precipitation by binding to a solid phase AB

A method of separating polynucleotides, such as DNA, RNA and PNA, from solution by reversibly and non-specifically binding them to a solid surface, such as a magnetic microparticle, with a functional group-coated surface is disclosed. The salt and polyalkylene glycol concentration of the solution is adjusted to levels which result in polynucleotide

binding to the magnetic microparticles. The magnetic

microparticles with bound polynucleotides are separated from the solution and

t.he

polynucleotides are eluted from the magnetic microparticles. The method is generally applicable to large and small nucleic acids and works with crude prepns. such as cleared lysates. Material can be selectively eluted from the particles by controlling the ionic strength of the elution

buffer. AN 1996:350414 HCAPLUS <<LOGINID::20100412>> DN 125:5056 OREF 125:1147a,1150a TI Purification of nucleic acids from solution without precipitation by binding to a solid phase IN Hawkins, Trevor PA Whitehead Institute for Biomedical Research, USA SO PCT Int. Appl., 38 pp. CODEN: PIXXD2 DT Patent LA English FAN.CNT 1 KIND DATE APPLICATION NO. DATE PATENT NO. WO 9609379 PT A1 19960328 WO 1995-US11839 19950919 <--W: CA, JP RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE US 5705628 A 19980106 US 1994-309267 19940920 <--IL 115352 A 20090211 IL 1995-115352 19950919 <--A 19990427 U: A 19940920 <--US 5898071 19990427 US 1998-2412 19980102 <--PRAI US 1994-309267

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OSC.G 29 THERE ARE 29 CAPLUS RECORDS THAT CITE THIS RECORD (32 CITINGS)
RE.CNT 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT